


ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

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Title of Invention	METHODS AND APPARATUS FOR TREATING INTERVERTEBRAL DISCS						
<div>Application Number: 10/656597 </div> <div>Confirmation Number: 7953</div> <div>First Named Applicant: David Hovda</div> <div>Attorney Docket Number:</div> <div>Search string: (4658817 or 4896671 or 4958539 or 4976709 or 5137530 or 5201729 or 5230334 or 5318564 or 5374265 or 5403311 or 5433739 or 5439446 or 5458596 or 5542945 or 5562703 or 5660836 or 5720744 or 5846196 or 5860951 or 5954716 or 5980504 or 6007570 or 6073051 or 6261311 or 6575968 or 4269174 or 4483338 or 5626576 or 5785705 or 5823955 or 5916214 or 6096036 or 6105581 or 6122549 or 6258086 or 6283961 or 6319250 or 6500173 or 4582057 or 6095149 or 20020016583).pn.</div>							
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
11	1	4658817	1987-04-21	Hardy			
	2	4896671	1990-01-30	Cunningham et al.			
	3	4958539	1990-09-25	Stasz et al.			
	4	4976709	1990-12-11	Sand			
	5	5137530	1992-08-11	Sand			
	6	5201729	1993-04-13	Hertzmann et al.			
	7	5230334	1993-07-27	Klopotek			
	8	5318564	1994-06-07	Eggers			
	9	5374265	1994-12-20	Sand			
	10	5403311	1995-04-04	Abele et al.			
	11	5433739	1995-07-18	Sluijter et al.			
	12	5439446	1995-08-08	Barry			

13	5458596	1995-10-17	Lax et al.
14	5542945	1996-08-06	Fritzsche
15	5562703	1996-08-08	Desai
16	5660836	1997-08-26	Knowlton
17	5720744	1998-02-24	Eggleston et al.
18	5846196	1998-12-08	Siekmeyer et al.
19	5860951	1999-01-19	Eggers et al.
20	5954716	1999-09-21	Sharkey et al.
21	5980504	1999-11-09	Sharkey et al.
22	6007570	1999-12-28	Sharkey et al.
23	6073051	2000-06-06	Sharkey et al.
24	6261311	2001-07-17	Sharkey et al.
25	6575968	2003-06-10	Eggers et al.
26	4269174	1981-05-26	Adair
27	4483338	1984-11-20	Bloom et al.
28	5626576	1997-05-06	Janssen
29	5785705	1998-07-28	Baker
30	5823955	1998-10-20	Kuck et al.
31	5916214	1999-06-29	Cosio et al.
32	6096036	2000-08-01	Bowe et al.
33	6105581	2000-08-22	Eggers et al.
34	6122549	2000-09-19	Sharkey et al.
35	6258086	2001-07-10	Ashley et al.
36	6283961	2001-09-04	Underwood et al.
37	6319250	2001-11-20	Falwell et al.
38	6500173	2002-12-31	Underwood et al.
39	4582057	1986-04-15	Auth et al.
40	6095149	2000-08-01	Sharkey

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

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1	1	20020016583	2002-02-07	Cragg			

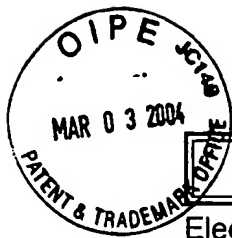
Remarks

Note: Remarks are not for responding to an office action.

This submission is part 6 of 6 parts each submitted on March 3, 2004. The first part of this submission (part 1) has been concomitantly filed via Priority mail with instructions for the PTO to charge the proper fee. Accordingly, we do not believe that this part (part 6) of this IDS submission should require an additional fee. Please charge our deposit account not more than one IDS submission fee for the entire submission consisting of six parts. Thank you.

Signature

Examiner Name	Date
R. Rollins	4/17/06



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Electronic Version v18
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Title of
Invention

METHODS AND APPARATUS FOR TREATING
INTERVERTEBRAL DISCS

Application Number: 10/656597



Confirmation Number: 7953

First Named Applicant: David Hovda

Attorney Docket Number:

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or 4181131 or 4184492 or 4567890 or 4660571
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or 5454809 or 2056377 or 3828780 or 3901242
or 5102410 or 6632220 or 6632193 or 6468274
or 4582057 or 20020029036).pn.

US Patent Documents

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1	1	6190381	2001-02-20	Olsen et al.			
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5	5	5375588	1994-12-27	Yoon			
6	6	6530922	2003-03-11	Cosman			
7	7	5197466	1993-03-30	Marchosky et al.			
8	8	6602248	2003-08-05	Sharps et al.			
9	9	3939839	1976-02-24	Curtiss			
10	10	3970088	1976-07-20	Morrison			
11	11	4074718	1978-02-21	Morrison, Jr.			

el	12	4092986	1978-06-06	Schneiderman
	13	4181131	1980-01-01	Ogiu
	14	4184492	1980-01-22	Meinke et al.
	15	4567890	1986-02-04	Ohta et al.
	16	4660571	1987-04-28	Hess et al.
	17	4727874	1988-03-01	Bowers et al.
	18	4920978	1990-05-01	Colvin
	19	4936281	1990-06-26	Stasz
	20	4966597	1990-10-30	Cosman
	21	5047026	1991-09-10	Rydell
	22	5047027	1991-09-10	Rydell
	23	5084044	1992-01-28	Quint
	24	5080660	1992-01-14	Buelna
	25	5088997	1992-02-18	Delahuerga et al.
	26	5099840	1992-03-31	Goble
	27	5108391	1992-04-28	Flachenecker et al.
	28	5112330	1992-05-12	Nishigaki et al.
	29	5167659	1992-12-01	Ohtomo et al.
	30	5217457	1993-06-08	Delahuerga et al.
	31	5217459	1993-06-08	Kamerling
	32	5277201	1994-01-11	Stern
	33	5306238	1994-04-26	Fleenor
	34	5423882	1995-06-13	Jackman et al.
	35	5441499	1995-08-15	Fritsch
	36	5451224	1995-09-19	Goble et al.
	37	5454809	1995-10-03	Janssen
	38	2056377	1939-10-06	Wappler
	39	3828780	1974-08-13	Morrison, Jr. et al.
	40	3901242	1975-08-26	Storz
	41	5102410	1992-04-07	Dressel
	42	6632220	2003-10-14	Eggers et al.
	43	6632193	2003-10-14	Davison et al.
	44	6468274	2002-10-22	Alleyne et al.
	45	4582057	1986-04-15	Auth et al

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RA	1	20020029036	2002-03-07	Goble et al.			

Remarks

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15	5314406	1994-05-24	Arias et al.
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21	4674499	1987-06-23	Pao
22	4936301	1990-06-26	Rexroth et al.
23	4943290	1990-07-24	Rexroth et al.
24	4979948	1990-12-25	Geddes et al.
25	5035696	1991-07-30	Rydell
26	5195959	1993-03-23	Smith
27	5700262	1997-12-23	Acosta et al.
28	5807395	1998-09-15	Mulier et al.
29	5496312	1996-03-05	Klicek
30	5556397	1996-09-17	Long et al.
31	5681282	1997-10-28	Eggers et al.
32	5683366	1997-11-04	Eggers et al.
33	5697536	1997-12-16	Eggers et al.
34	5766153	1998-06-16	Eggers et al.
35	5810764	1998-09-22	Eggers et al.
36	5810809	1998-09-22	Rydell
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38	5897553	1999-04-27	Mulier
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41	5423810	1995-06-13	Goble et al.
42	5436566	1995-07-25	Thompson et al.
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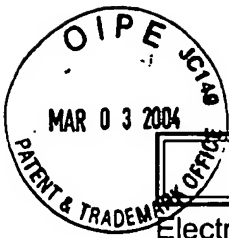
Remarks

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Examiner Name	Date
<i>R. Rollins</i>	<i>4/17/06</i>



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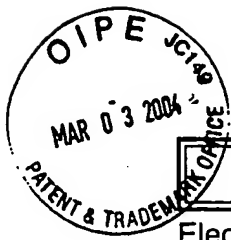
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Stylesheet Version v18.0

Title of Invention	METHODS AND APPARATUS FOR TREATING INTERVERTEBRAL DISCS						
<p>Application Number: 10/656597</p> <p>Confirmation Number: 7953</p> <p>First Named Applicant: David Hovda</p> <p>Attorney Docket Number:</p> <p>Search string: (5496314 or 5496317 or 5571100 or 5633578 or 5860975 or 4682596 or 5078717 or 5267994 or 5273524 or 5300069 or 5312400 or 5334140 or 5342357 or 5514130 or 5569242 or 4593691 or 4931047 or 4998933 or 5178620 or 5366443 or 5380277 or 5419767 or 5697281 or 5697882 or 5697909 or 4532924 or 4765331 or 4976711 or 5125928 or 4043342 or 4228800 or 4248231 or 4326529 or 4381007 or 4476862 or 4706667 or 5009656 or 5584872 or 5609151 or 5676693 or 5725524 or 4232676 or 5007908 or 5370675 or 5383917 or 4040426 or 4116198 or 4548207 or 4823791 or 5098431).pn.</p>							
<p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p>							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
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11	5312400	1994-05-17	Bales et al.
12	5334140	1994-08-02	Philips
13	5342357	1994-08-30	Nardella
14	5514130	1996-05-07	Baker
15	5569242	1996-10-29	Lax et al.
16	4593691	1986-06-10	Lindstrom et al.
17	4931047	1990-06-05	Broadwin et al.
18	4998933	1991-03-12	Eggers et al.
19	5178620	1993-01-12	Eggers et al.
20	5366443	1994-11-22	Eggers et al.
21	5380277	1995-01-10	Phillips
22	5419767	1995-05-30	Eggers et al.
23	5697281	1997-12-16	Eggers et al.
24	5697882	1997-12-16	Eggers et al.
25	5697909	1997-12-16	Eggers et al.
26	4532924	1985-08-06	Auth et al.
27	4765331	1988-08-23	Petruzzi et al.
28	4976711	1990-12-11	Parins et al.
29	5125928	1992-06-30	Parins et al.
30	4043342	1997-08-23	Morrison, Jr.
31	4228800	1980-10-21	Degler, Jr. et al.
32	4248231	1981-02-03	Herczog et al.
33	4326529	1982-04-27	Doss et al.
34	4381007	1983-04-26	Doss
35	4476862	1984-10-16	Pao
36	4706667	1987-11-17	Roos
37	5009656	1991-04-23	Reimels
38	5584872	1996-12-17	LaFontaine et al.
39	5609151	1997-03-11	Mulier et al.
40	5676693	1997-10-14	LaFontaine et al.
41	5725524	1998-03-10	Mulier et al.
42	4232676	1980-11-11	Herczog
43	5007908	1991-04-16	Rydell
44	5370675	1994-12-06	Edwards et al.
45	5383917	1995-01-24	Desai et al.
46	4040426	1977-08-09	Morrison, Jr.

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Remarks

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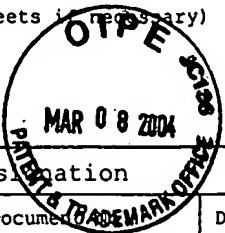
This submission is part 2 of 6 parts each submitted on March 3, 2003. The first part of this submission (part 1) has been concomittently filed via Priority mail with instructions for the PTO to charge the proper fee. Accordingly, we do not believe that this part (part 2) of this IDS submission should require an additional fee. Please charge our deposit account not more than one IDS submission fee for the entire submission consisting of six parts. Thank you.

Signature

Examiner Name	Date
<i>R. Rollins</i>	<i>4/17/06</i>

FORM PTO-1449 (Modified)		Attorney Docket No.		Application No.:		
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		S-12		10/656,597		
		Applicant: David C. Hovda et al.				
		Filing Date: September 5, 2003		Group: 3763		
U.S. PATENT DOCUMENTS						
Examiner Initial	Designation	Date	Name	Class	Filing Date	
FOREIGN PATENT DOCUMENTS						
	Document No.	Date	Country	Class	Sub-class	Translation (yes/no)
<u>RI</u>	AN 57-57802	04/05/82	JP	A61B	1/00	
	AH 97/48345	12/24/97	WIPO	A61B	17/39	
	AI 98/27880	07/02/98	WIPO	A61B	17/39	
	AB 92/21278	12/10/92	WIPO	A61B	5/04	
	AC 94/08654	04/28/94	WIPO	A61M	37/00	
	AD 97/00647	01/09/97	WIPO	A61B	17/39	
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	AK 2 327 351	01/27/99	UK	A61B	17/39	
	AL 2 327 352	01/27/99	UK	A61B	17/39	
	AA 0 694 290	11/15/00	Europe	A61B	18/04	
	AF 0 703 461	03/27/96	Europe	G01R	27/02	
	AG 0 754 437	01/22/97	Europe	A61B	17/39	
	AM 3930451	03/21/91	Germany	A61B	17/39	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
	AO	Pearce, John A. (1986) <i>Electrosurgery</i> , pgs. 17, 69-75, 87, John Wiley & Sons, New York.				
	AP	J.W. Ramsey et al. <i>Urological Research</i> Vol. 13, pp. 99-102 (1985).				
	AQ	V.E. Elsasser et al. <i>Acta Medico Technica</i> Vol. 24, No. 4, pp. 129-134 (1976).				
	AR	P.C. Nardella (1989) <i>SPIE</i> 1068:42-49 Radio Frequency Energy and Impedance Feedback				
	AS	R. Tucker et al., Abstract P14-11, p. 248, "A Bipolar Electrosurgical Turp Loop"				
	AT	R. Tucker et al. <i>J. of Urology</i> Vol. 141, pp. 662-665, (1989).				
	AU	R. Tucker et al. <i>Urological Research</i> Vol. 18, pp. 291-294 (1990).				
	AV	Kramolowsky et al. <i>J. of Urology</i> Vol. 143, pp. 275-277 (1990).				
EXAMINER	<u>P. Rollins</u>		DATE CONSIDERED		<u>4/17/06</u>	

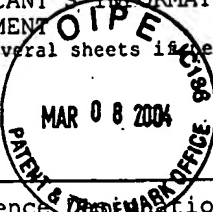
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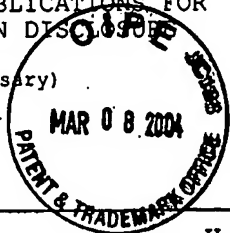
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
<input checked="" type="checkbox"/> BP	Kramolowsky et al. J. of Urology Vol. 146, pp. 669-674 (1991).					
<input checked="" type="checkbox"/> BQ	Slager et al. Z. Kardiol. 76:Suppl. 6, 67-71 (1987).					
<input checked="" type="checkbox"/> BR	Slager et al. JACC 5(6):1382-6 (1985).					
<input checked="" type="checkbox"/> BS	Olsen MD, Bipolar Laparoscopic Cholecstectomy Lecture (marked confidential), 10/07/91					
EXAMINER <u>Rollins</u> DATE CONSIDERED <u>4/17/06</u>						

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Reference Designation U.S. PATENT DOCUMENTS						
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date
FOREIGN PATENT DOCUMENTS						
	Document No.	Date	Country	Class	Sub-class	Translation (yes/no)
<u>BU</u>	93/20747	10/28/93	WIPO	A61B	5/00	
<u>BT</u>	90/03152	04/05/90	WIPO	A61B	17/39	
<u>BU</u>	2313949	01/07/77	France	A61N	3/02	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
<u>BV</u>	Codman & Shurtleff, Inc. "The Malis Bipolar Electrosurgical System CMC-III Instruction Manual" 7/1991					
<u>BW</u>	Valley Forge's New Products, CLINICA, 475, 5, 11/6/91					
<u>BX</u>	Valley Forge Scientific Corp., "Summary of Safety and Effective Information from 510K," 1991					
<u>BY</u>	Codman & Shurtleff, Inc. "The Malis Bipolar Coagulating and Bipolar Cutting System CMC-II" brochure, early 1991					
<u>BZ</u>	L. Malis, "The Value of Irrigation During Bipolar Coagulation" See ARTC 21602, early 4/9/93					
<u>CA</u>	L. Malis, "Excerpted from a seminar by Leonard I. Malis, M.D. at the 1995 American Association of Neurological Surgeons Meeting," 1995					
<u>CB</u>	L. Malis, "Electrosurgery, Technical Note," J. Neursurg., Vol. 85, 970-975, 11/96					
<u>CC</u>	Ian E. Shuman, "Bipolar Versus Monopolar Electrosurgery: Clinical Applications," Dentistry Today, Vol. 20, No. 12, 12/01					
<u>CD</u>	Protell et al., "Computer-Assisted Electrocoagulation: Bipolar v. Monopolar in the Treatment of Experimental Canine Gastric Ulcer Bleeding," Gastroenterology Vol. 80, No. 3, pp. 451-455					
<u>CE</u>	Cook and Webster, "Therapeutic Medical Devices: Application and Design," 1982					
<u>CF</u>	Valleylab SSE2L Instruction Manual, 1/6/83					
<u>CG</u>	Robert D. Tucker et al., "Demodulated Low Frequency Currents from Electrosurgical Procedures," Surgery, Gynecology and Obstetrics, 159:39-43, 1984					
<u>CH</u>	Lu, et al., "Electrical Thermal Angioplasty: Catheter Design Features, In Vitro Tissue Ablation Studies and In Vitro Experimental Findings," Am J. Cardiol Vol. 60, pp. 1117-1122					
EXAMINER <u>R. Rollins</u> DATE CONSIDERED <u>4/17/06</u>						

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U.S. PATENT DOCUMENTS						
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date
FOREIGN PATENT DOCUMENTS						
	Document No.	Date	Country	Class	Sub-class	Translation (yes/no)
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
PL	CH	Selikowitz & LaCourse, "Electric Current and Voltage Recordings on the Myocardium During Electrosurgical Procedures in Canines," <i>Surgery, Gynecology & Obstetrics</i> , Vol. 164, 219-224, March 1987				
—	CI	J. O'Malley, Schaum's Outline of Theory and Problems of Basic Circuit Analysis, McGraw-Hill, 2 nd Ed., 1992, pp. 3-5				
—	CJ	Arnaud Wattiez et al., "Electrosurgery in Operative Endoscopy," <i>Electrosurgical Effects</i> , Blackwell Science, pp. 85-93, 1995				
—	CK	Leslie A. Geddes, "Medical Device Accidents: With Illustrative Cases" CRC Press, 1998				
—	CL	Wyeth, "Electrosurgical Unit" pp. 1181-1202				
—	CM	C.P. Swain, et al., <i>Gut</i> Vol. 25, pp. 1424-1431 (1984)				
—	CN	Piercey et al., <i>Gastroenterology</i> Vol. 74(3), pp. 527-534 (1978)				
—	CO	A.K. Dobbie <i>Bio-Medical Engineering</i> Vol. 4, pp. 206-216 (1969)				
—	CP	B. Lee et al. <i>JACC</i> Vol. 13(5), pp. 1167-1175 (1989)				
—	CQ	K. Barry et al. <i>American Heart Journal</i> Vol. 117, pp. 332-341 (1982)				
—	CR	W. Honig <i>IEEE</i> pp. 58-65 (1975)				
—	CS	Jacob Kline, <i>Handbook of Biomedical Engineering</i> , Academic Press Inc., N.Y., pp. 98-113, 1988				
—	CT	M.B. Dennis et al. "Evolution of Electrofulguration in Control of Bleeding of Experimental Gastric Ulcers," <i>Digestive Diseases and Sciences</i> , Vol. 24, No. 11, 845-848				
—	CU	Letter from Department of Health to Jerry Malis dated April 15, 1985				
—	CV	Letter from Jerry Malis to FDA dated July 25, 1985				
—	CW	Letter from Department of Health to Jerry Malis dated 04/22/91				
—	CX	Leonard Malis, "Instrumentation for Microvascular Neurosurgery" <i>Cerebrovascular Surgery</i> , Vol 1, 245-260, 1985.				
—	CY	Valleylab, Inc. "Valleylab Part Number 945 100 102 A" Surgistat Service Manual, 7/88				
—	CZ	Leonard I. Malis, "New Trends in Microsurgery and Applied Technology," <i>Advanced Technology in Neurosurgery</i> , 1-16, 1988				
EXAMINER		DATE CONSIDERED				
R. J. Collins		4/17/00				

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Attorney Docket No. <div style="text-align: center; font-weight: bold; font-size: 1.2em;">S-12</div>		Application No.: <div style="text-align: center; font-weight: bold; font-size: 1.2em;">10/656,597</div>	
			Applicant: David C. Hovda et al.			
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Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date
FOREIGN PATENT DOCUMENTS						
	Document No.	Date	Country	Class	Sub-class	Translation (yes/no)
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<u>DC</u>	98/11944	3/26/98	WO			
<u>DD</u>	98/17190	4/30/98	WO			
<u>DE</u>	99/47058	9/23/99	WO			
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
<u>DF</u>	Thermal Characteristics and the Lumbar Disc: Evaluation of a Novel Approach to Targeted Intradiscal Thermal Therapy; Jeffrey A. Saal, MD; Joel S. Saal, MD; John Ashley, MS Menlo Park, CA					
EXAMINER		DATE CONSIDERED <u>4/17/06</u>				